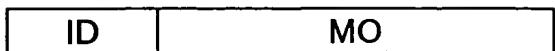
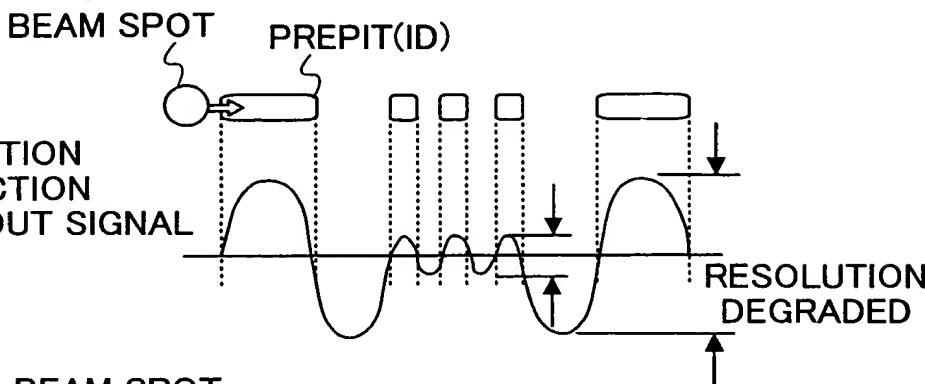


FIG.1

(a) DATA FORMAT



(b) ID SECTION
ID-SECTION
READOUT SIGNAL



(c) MO SECTION
MO-SECTION
READOUT SIGNAL

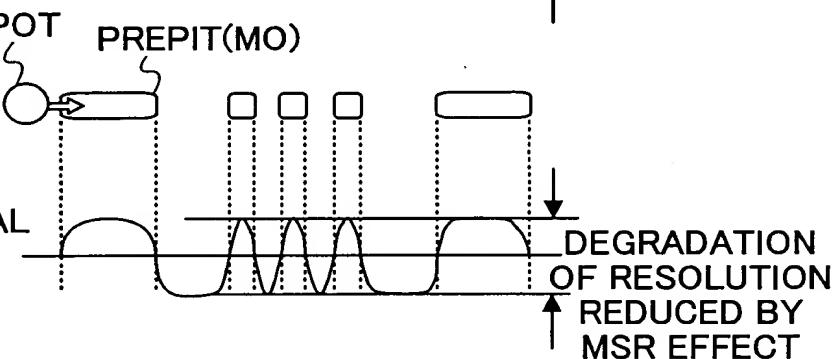


FIG.2

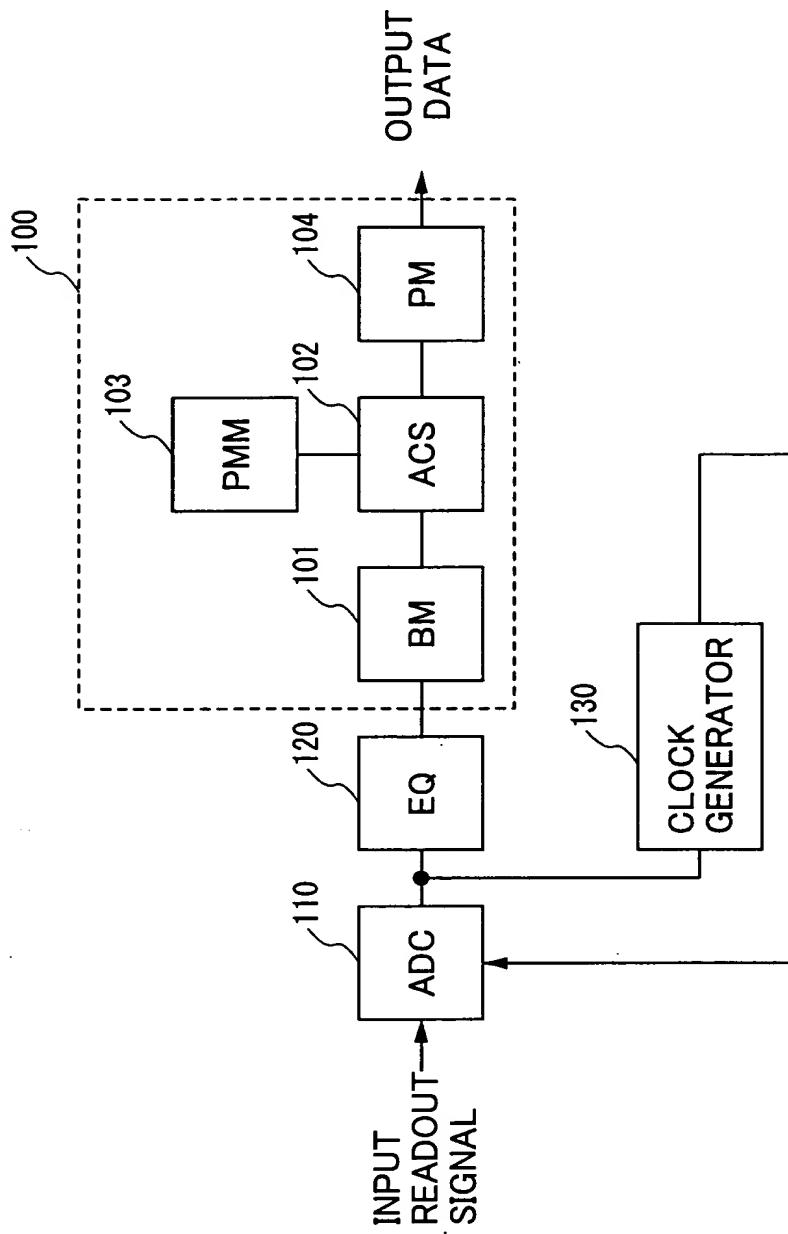


FIG. 3

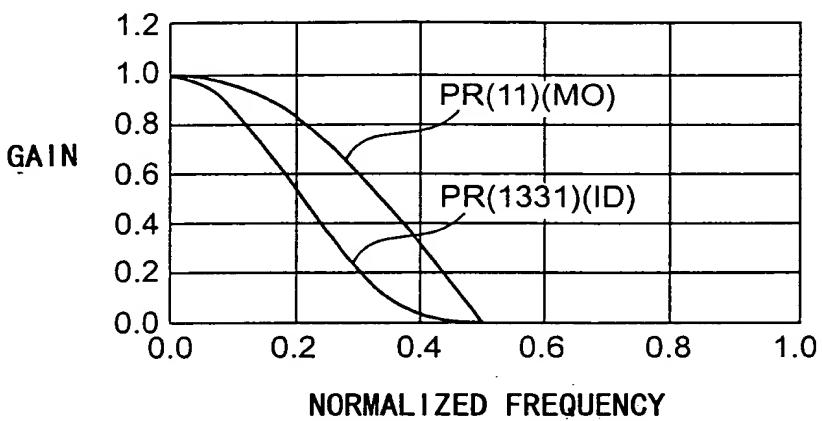
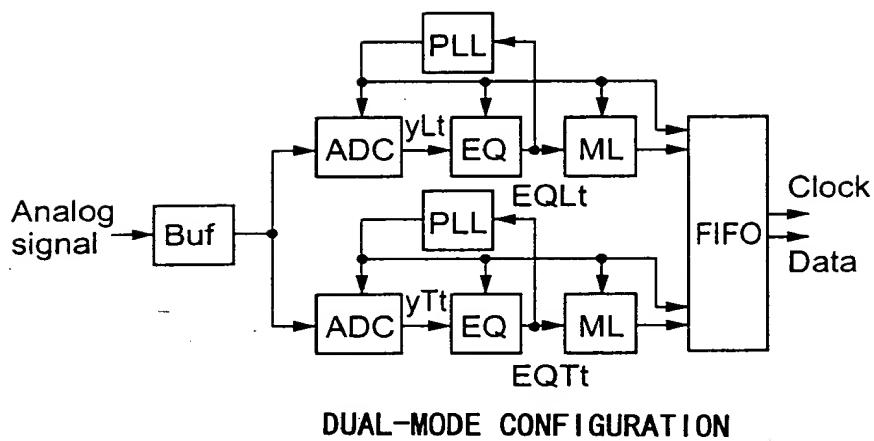
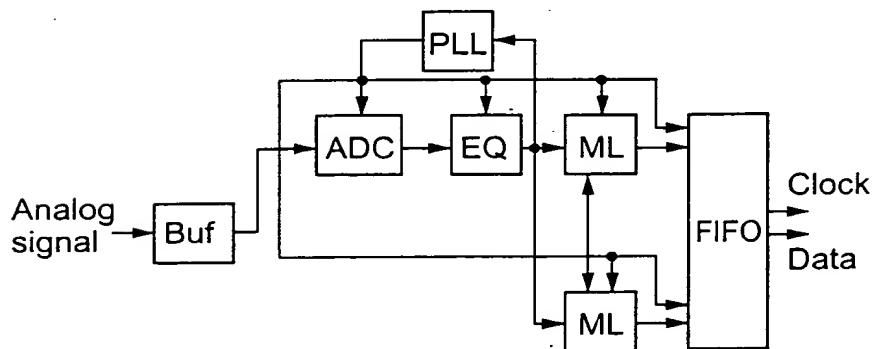


FIG. 4A



DUAL-MODE CONFIGURATION

FIG. 4B



SINGLE-MODE CONFIGURATION

FIG.5

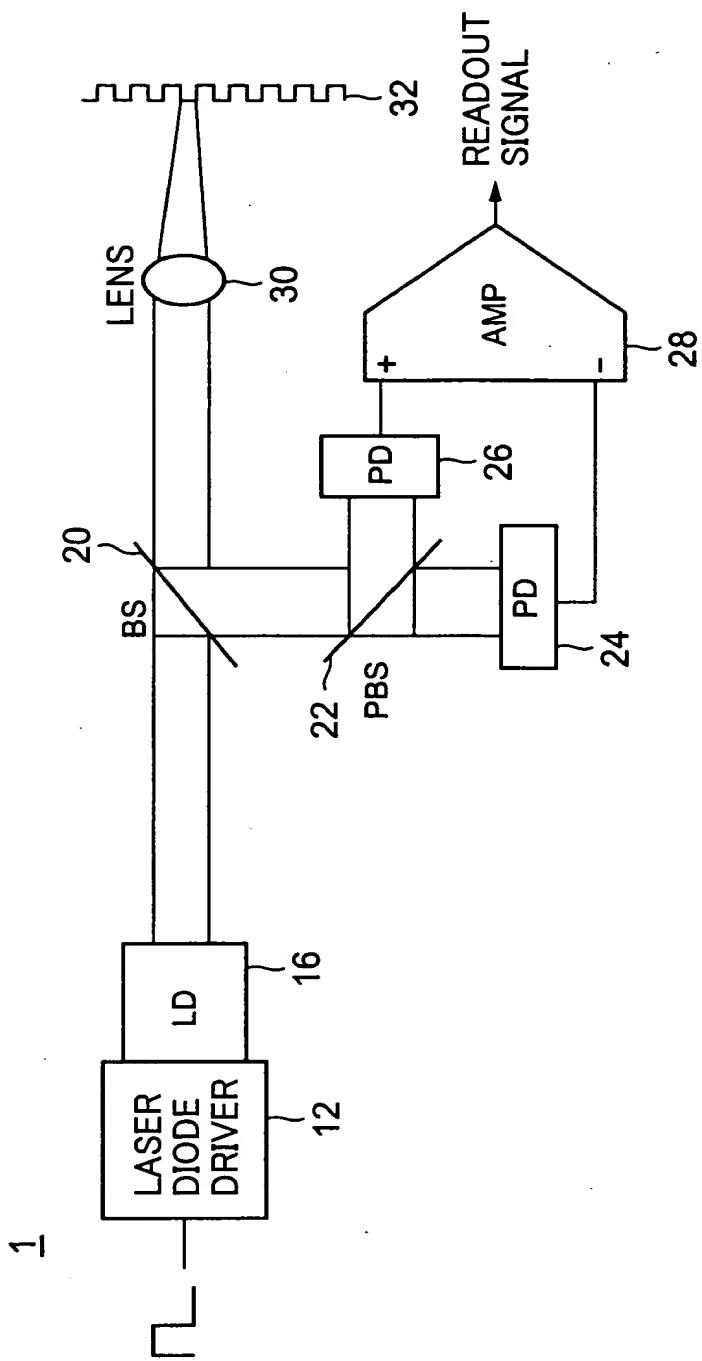


FIG.6

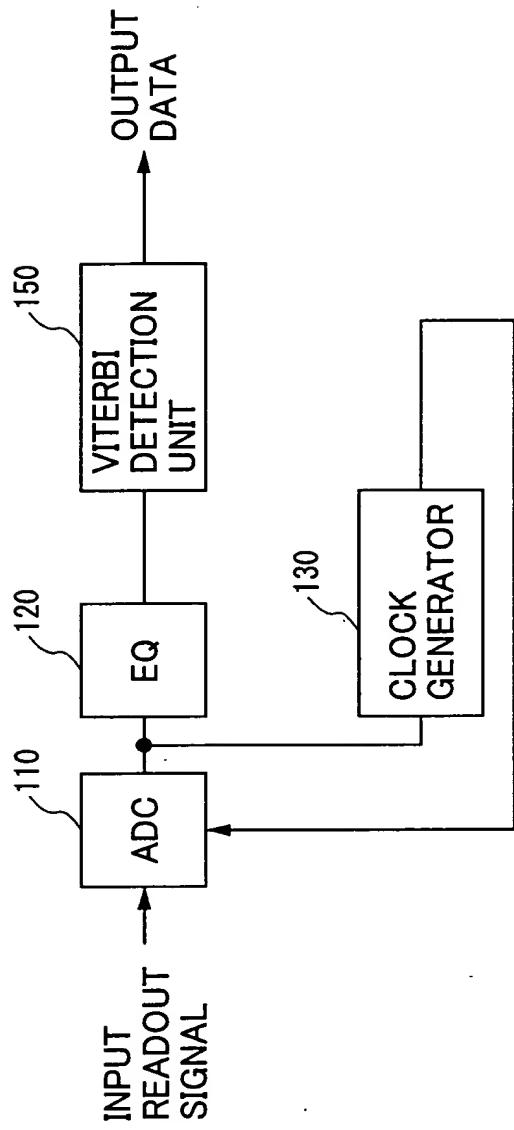


FIG. 7A

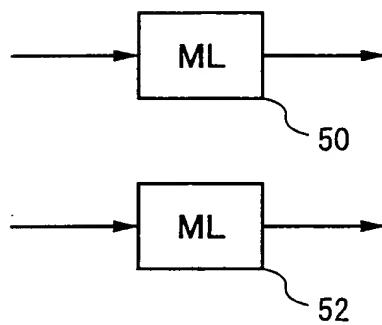


FIG. 7B

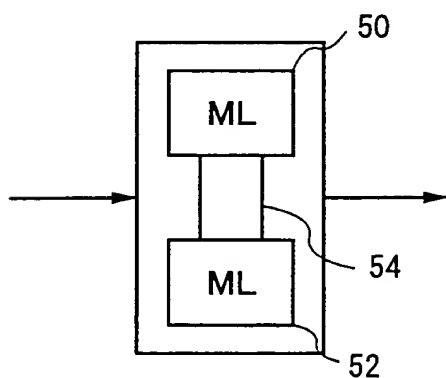


FIG.8

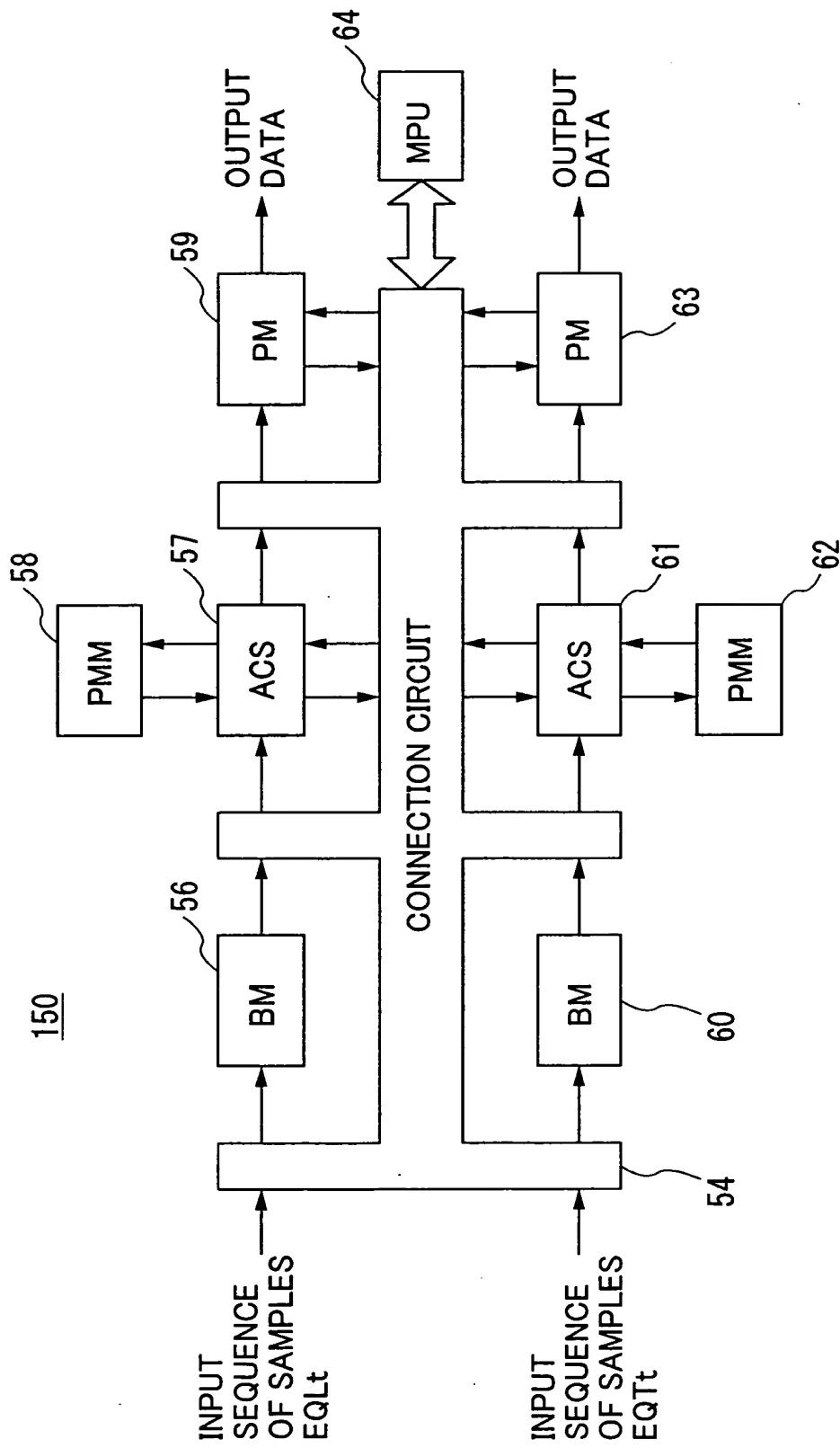


FIG. 9A

IN CASE OF PR(1, 1, 0, X)					IN CASE OF PR(1, 3, 3, 1)					
TIME	t-3	t-2	t-1	t	TIME	t-3	t-2	t-1	t	Ph
STATE SLO X	0	0	0		STATE SLO	0	0	0		SLO PLO=0
SL1 X	1	0	0		SL1	0	1	0		STO PL1=0
SE2 X	0	1	0		SE2	0	0	1		SL1
SL3 X	1	1	0		SL3	0	1	1		ST1 PL3=6
SLO X	0	0	1		SLO	0	0	0	1	SL2 PL4=1
SL1 X	1	0	1		SL1	0	1	0	1	ST2
SL2 X	0	1	1		SL2	0	0	1	1	SL3 PL6=4
SL3 X	1	1	1		SL3	0	1	1	1	ST3 PL7=7
STO X	0	0	0		STO	1	0	0	0	SLO PTO=1
ST1 X	1	0	0		ST1	1	1	0	0	STO PT1=4
ST2 X	0	1	0		ST2	1	0	1	0	SL1
ST3 X	1	1	0		ST3	1	1	1	0	ST1 PT3=7
STO X	0	0	1		STO	1	0	0	1	SL2 PT4=1
ST1 X	1	0	1		ST1	1	1	0	1	ST2
ST2 X	0	1	1		ST2	1	0	1	1	SL3
ST3 X	1	1	1		ST3	1	1	1	1	ST3 PT7=8
DUAL MODE					SINGLE MODE					

FIG. 9B

FIG. 10A

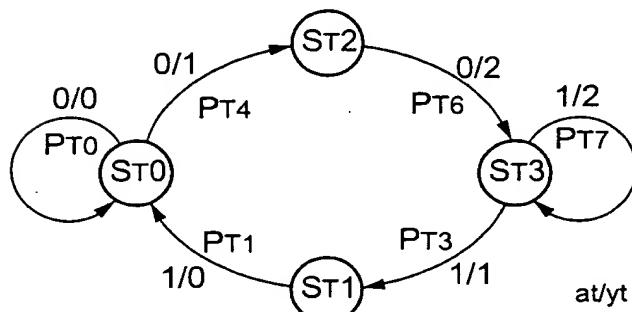
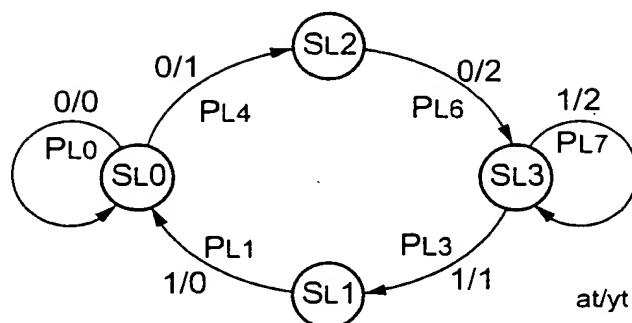


FIG. 10B

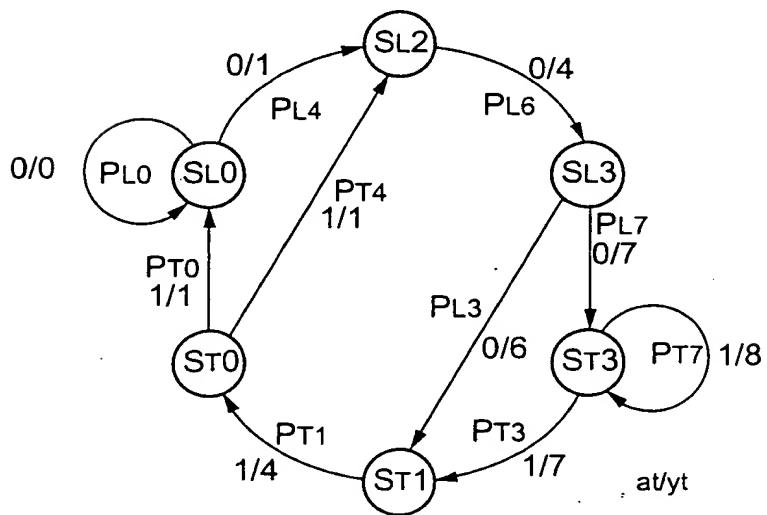


FIG. 11A

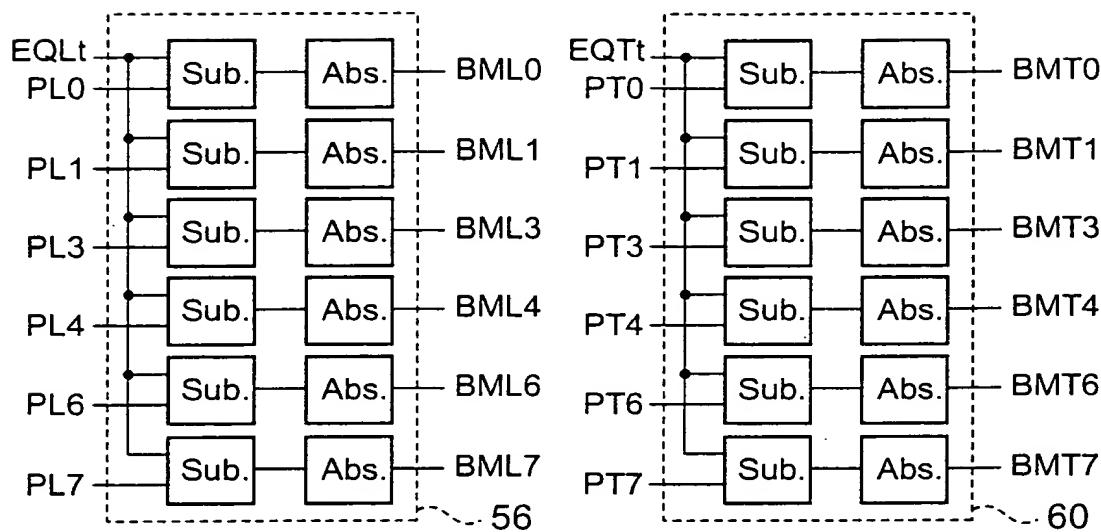


FIG. 11B

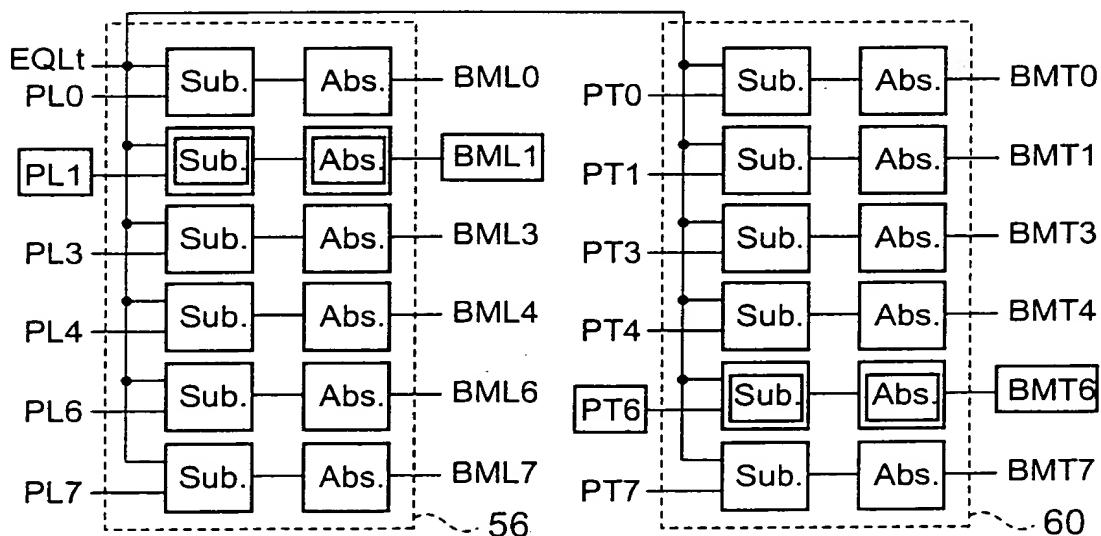


FIG. 12

CODE 140000 PATENT DRAWING

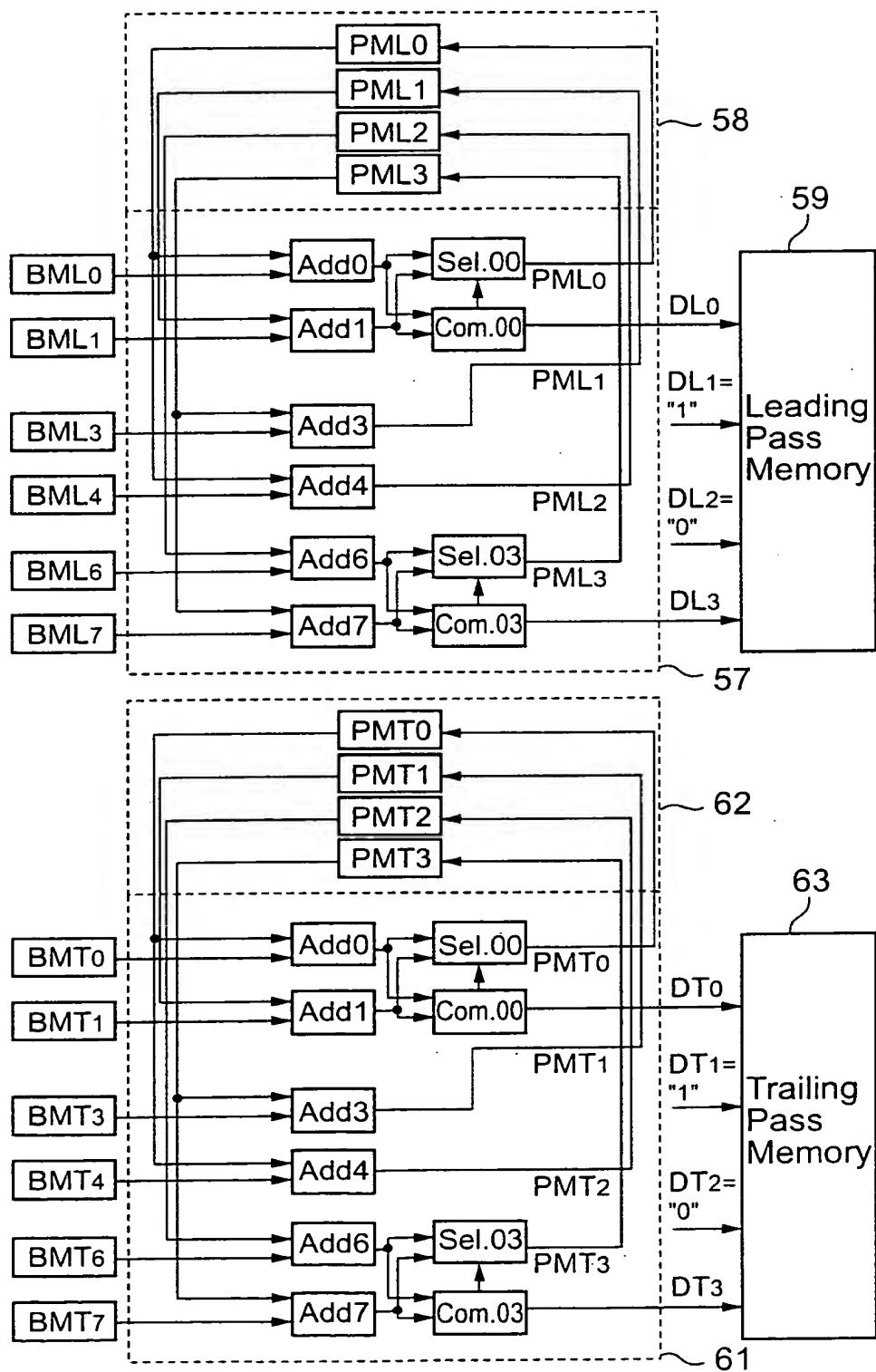


FIG. 13A

PML(t, 0)=min [PML(t-1, 0) + BML0 , PML(t-1, 1) + BML1] ;DL0
PML(t, 1)= PML(t-1, 3) + BML3 ;DL1
PML(t, 2)= PML(t-1, 0) + BML4 ;DL2
PML(t, 3)=min [PML(t-1, 2) + BML6 , PML(t-1, 3) + BML7] ;DL3

PMT(t, 0)=min [PMT(t-1, 0) + BMT0 , PMT(t-1, 1) + BMT1] ;DT0
PMT(t, 1)= PMT(t-1, 3) + BMT3 ;DT1
PMT(t, 2)= PMT(t-1, 0) + BMT4 ;DT2
PMT(t, 3)=min [PMT(t-1, 2) + BMT6 , PMT(t-1, 3) + BMT7] ;DT3

FIG. 13B

PML(t, 0)=min [PML(t-1, 0) + BML0 , PMT(t-1, 0) + BMT0] ;DL0
PML(t, 2)=min [PML(t-1, 0) + BML4 , PMT(t-1, 0) + BMT4] ;DT0
PML(t, 3)= PML(t-1, 2) + BML6 ;DT2
PMT(t, 0)= PMT(t-1, 1) + BMT1 ;DL1
PMT(t, 1)=min [PML(t-1, 3) + BML3 , PMT(t-1, 3) + BMT3] ;DL3
PMT(t, 3)=min [PML(t-1, 3) + BML7 , PMT(t-1, 3) + BMT7] ;DT3

FIG. 14

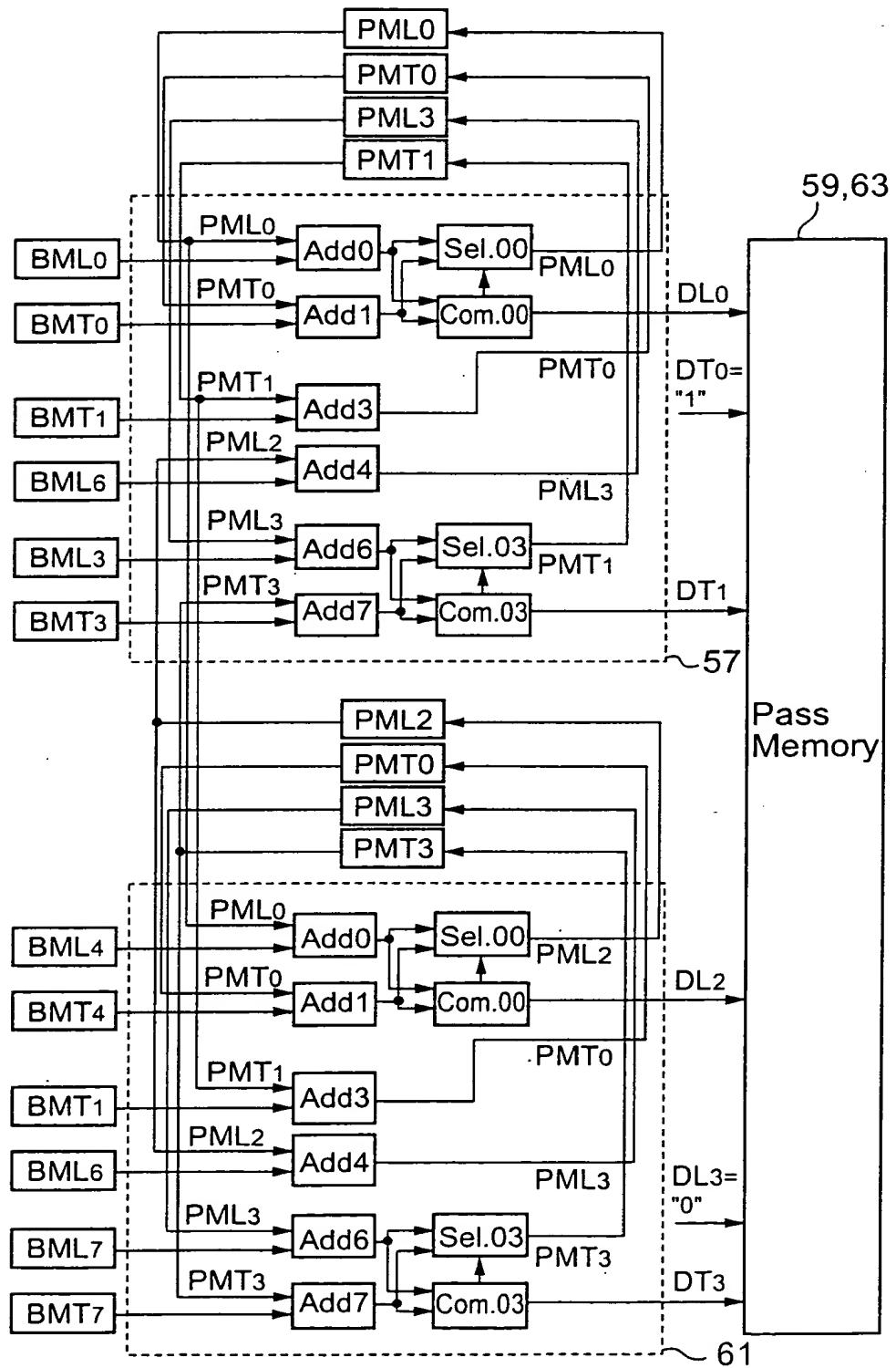


FIG. 15

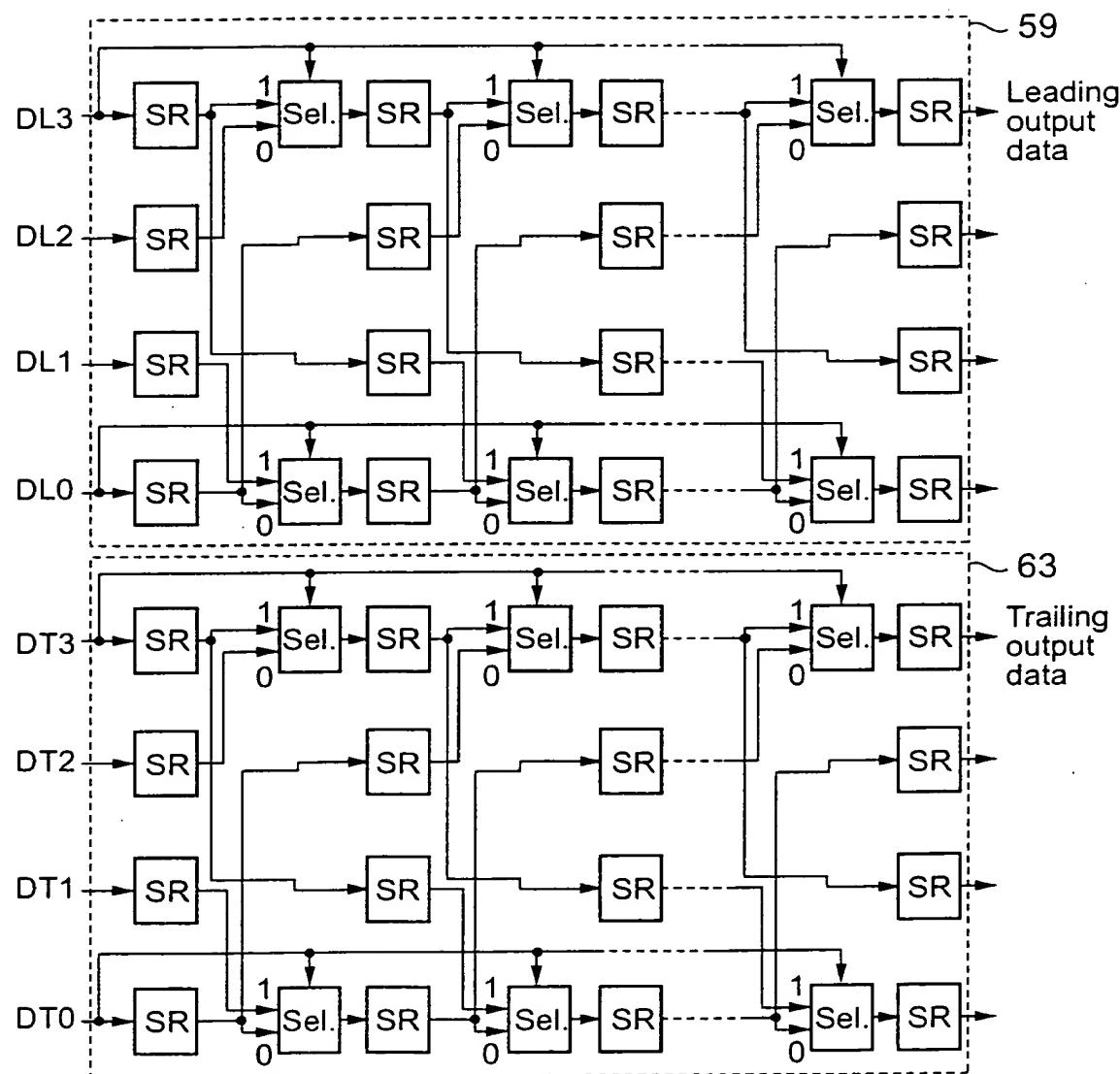


FIG. 16

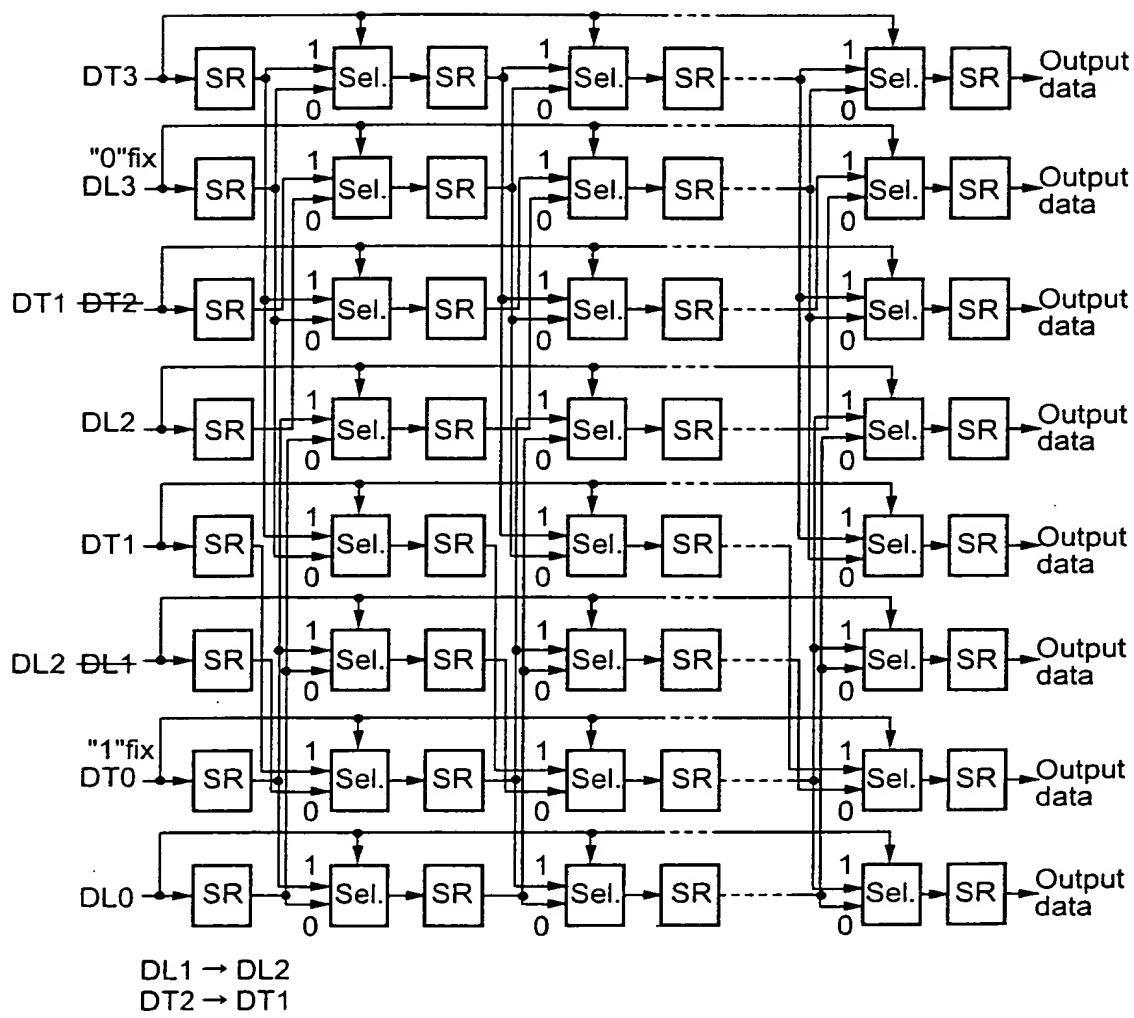


FIG.17

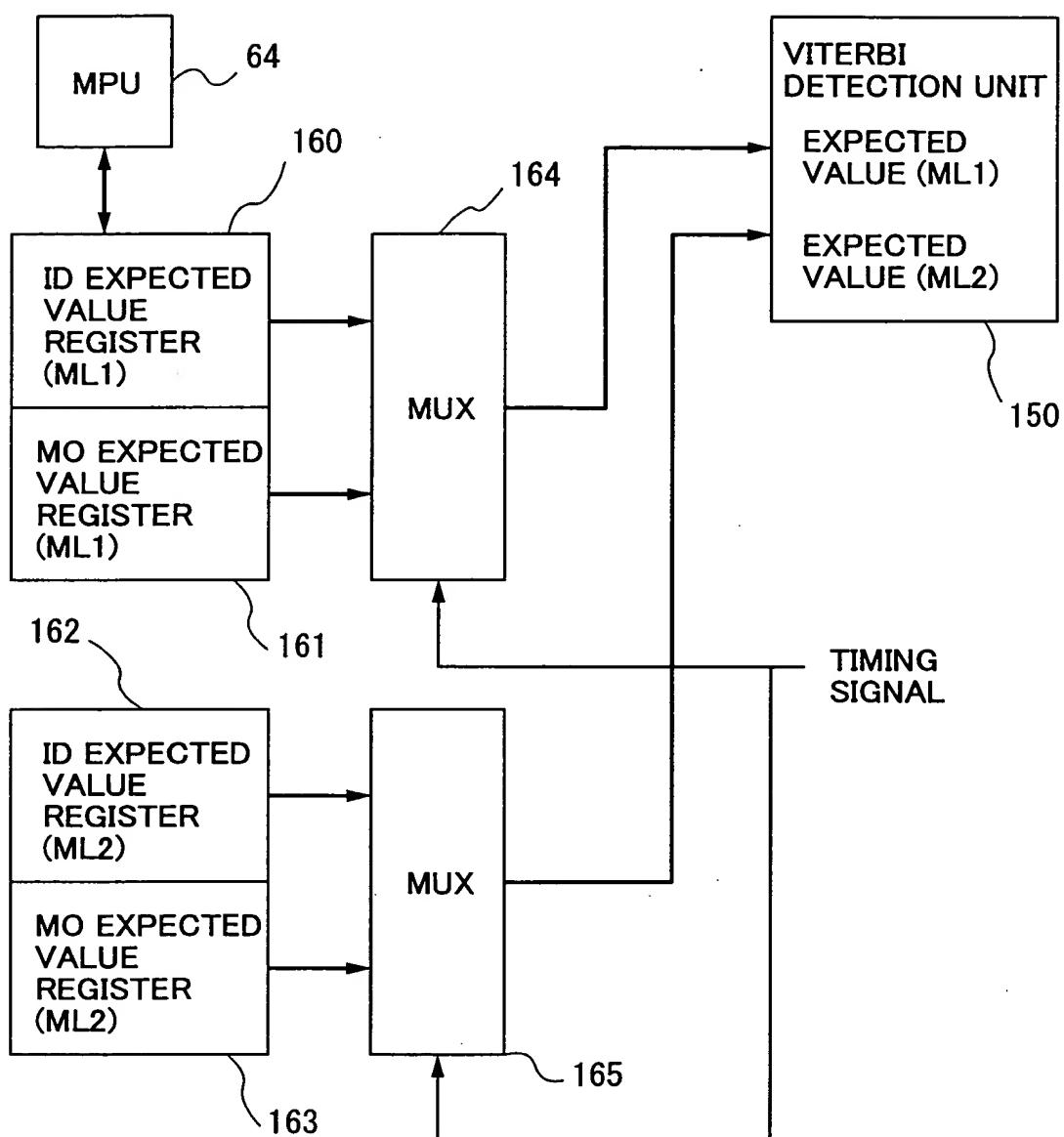


FIG. 18

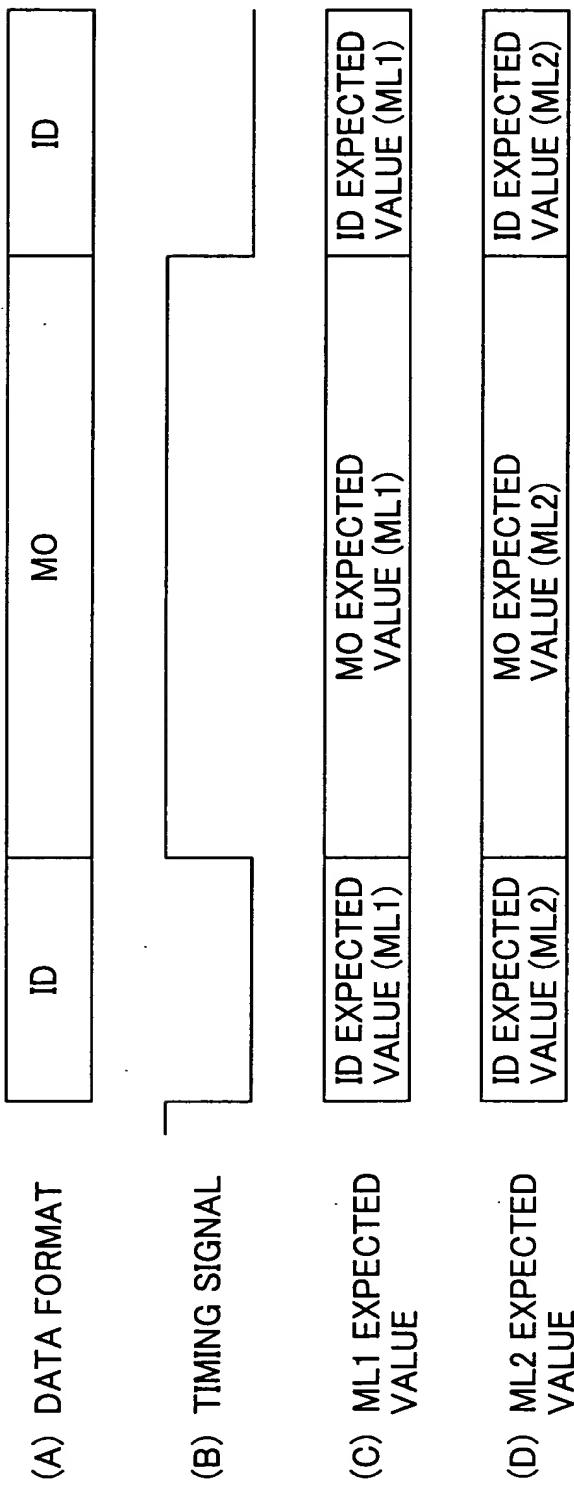


FIG. 19A

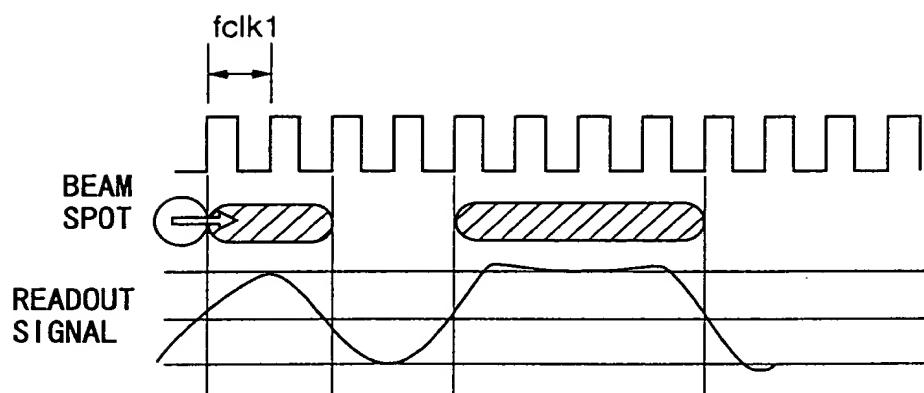


FIG. 19B

